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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/747,866	12/29/2003	Richard Rivera	TROPIP.041DV1	2806
20995	7590 08/10/2005		EXAMINER	
	MARTENS OLSON &	CHAN, KO HUNG		
	2040 MAIN STREET FOURTEENTH FLOOR		ART UNIT	PAPER NUMBER
IRVINE, CA	A 92614	3632		
			DATE MAILED: 08/10/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/747,866	RIVERA, RICHARD				
		Examiner	Art Unit				
		Korie H. Chan	3632				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	, ,						
1)🖾	Responsive to communication(s) filed on 5/31/01						
′_	This action is FINAL . 2b)⊠ This action is non-final.						
3)∐	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	☑ Claim(s) <u>1-5,7-12,15-18 and 20-28</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
•	Claim(s) <u>1-5,7-12,15-18 and 20-28</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers	•					
9)[The specification is objected to by the Examine	r.	•				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) 🗌	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119	•					
12) 🗌 .	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:							
 Certified copies of the priority documents have been received. 							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
* 0	application from the International Bureau						
⁻ S	See the attached detailed Office action for a list	of the certified copies not receive	ea .				
Attachment		_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.							
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Patent Application (PTO-152)				

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Claim Rejections - 35 USC § 112

Claims 24 and 27-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 24 "the top segment means" is inconsistent with the first claimed "top segment" in claim 1. Regarding claim 27, "the curved section" is inconsistent with the first claimed "curved segment".

Claim Rejections - 35 USC § 103

Claims 1-5, 7-10, 12, 16-18, and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vanderminden, Sr. (US patent no. 5,599,064) in view of Berry (US patent no. 2,450,869) and Rowland et al (US patent no. 2,533,511). Vanderminden discloses two C-shaped springs (25) connected by a horizontal support ((29) with downward post (22) wherein the C-spring is made of aluminum (Col. 2, line 52). However, Vanderminden does not disclose providing channel or two channels on the Cshaped spring. To provide a channel in a leaf spring to distribute stress and reduce weight is old and well-known in the art as demonstrated by Berry (Col. 1, lines 30-50). Berry also contemplates that such channel and plate maybe constant (Col. 2, lines 36-40) in cross-section such that they are flat. Rowland teaches a C-shaped spring (figures 5-14) having longitudinal channels (15, 16) on outer surface and flat inner surface and with first and second adjacent ends (5) and with thicker side portion (side of figure 14) and thin center portion (15) such that stress on the spring under loading are substantially constant throughout the major portion of the spring (Col. 3, lines 1-6). It would have been obvious to one of ordinary skill in the art to have modify the springs of

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Vanderminden such that channel or channels such that they are of uniform crosssection as taught by Berry and to have the channel or channels extend from a first end
to a second end as taught by Rowland for even distribution of stress of the spring under
loading as well as reduction in weight as taught to be desirable by Berry and Rowland.
Regarding claim 12, it would have been an obvious matter of design choice to have the
side portion 30% thicker than the center portion since applicant has not disclose such
specific dimension is critical or of particular advantage. Moreover, it appears other
percentage of thickness would perform as well. Regarding claims 20-22, method steps
of making the apparatus would have been obvious given the device of the above
combination.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vanderminden, Sr. (US patent no. 5,599,064) in view of Berry (US patent no. 2,450,869) and Rowland et al (US patent no. 2,533,511) as applied above, and further in view of Holmstrom (US patent no. 3,297,360). Vanderminden, Berry, and Rowland combined disclosed all the claimed features of applicant's invention except for the hole in the first end of elongate member for attachment to component. To attach support to seat member by providing hole in the elongate member for receiving fastener is old and well-known in the art. Holmstrom teaches in a C-shaped spring support having holes (figure 2) at first end for receiving fastener for attachment to the seat member (figure 5). It would have been obvious to one of ordinary skill in the art to provide hole in the first end of C-shaped spring of Vanderminden, Berry, and Rowland combined for receiving fastener for attachment to the seat member as taught by Holmstrom. Regarding claim

19, the method step of making the spring would have been obvious given the spring of Vanderminden, Rowland, and Holmstrom combined.

Claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vanderminden, Sr. (US patent no. 5,599,064) in view of Berry (US patent no. 2,450,869) and Rowland et al (US patent no. 2,533,511) as applied above, and further in view of Holmstrom (US patent no. 3,297,360) and Mangnuson et al (US patent no. 5,655,816). Vanderminden, Berry, Rowland, and Holmstrom combined disclosed all the claimed features of applicant's invention (see rejection of claim 11 above) except for the hole being a slot. To substitute a fastener receiving hole with a fastener receiving slot has the well-known advantage of adjustment along the slot. Mangnuson teaches a mounting (58, figure 2) to a chair having a slot (58f). It would have been obvious to one of ordinary skill in the art to have modify the hole of Vanderminden, Sr., Rowland and Holmstrom combined such that it is of a slot as taught by Mangnuson to facilitate adjustability along the slot.

Response to Arguments

Applicant's arguments with respect to pending claims have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Korie H. Chan whose telephone number is 571-272-6816. The examiner can normally be reached on Monday - Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Olszewski can be reached on 571-272-6788. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Korie H. Chan Primary Examiner Art Unit 3632

khc August 4, 2005